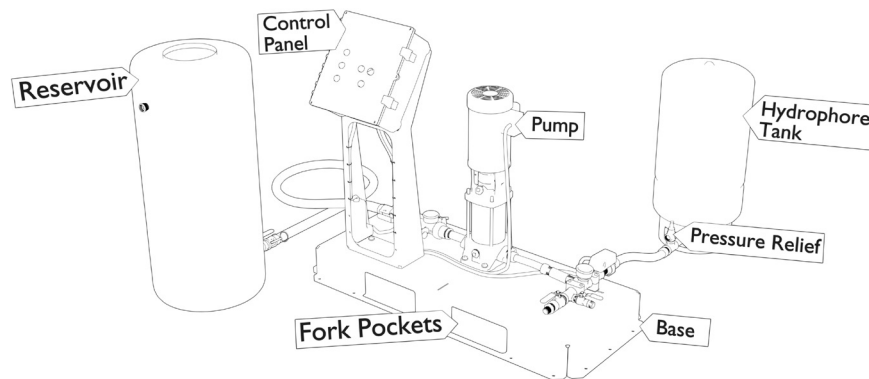


Water Booster Pump

OVERVIEW

The **Water Booster Pump** is a critical component when your facility's water supply cannot meet the minimum pressure and flow requirements of the Raptor Spark Detection and Extinguishing System. Designed to ensure reliable performance, it boosts incoming water pressure to maintain the optimal range needed for rapid and effective spark suppression. The Booster Pump helps ensure extinguishing nozzles operate at peak efficiency—quickly suppressing sparks before they can escalate into fires or explosions.



PUMP

The system features an AMT MSV3-12-1P, 1.5HP gravity-fed pump operating on 120V/16A single-phase power. It delivers 4–23 GPM and pressurizes up to 112 PSI (max set point via pressure switch).



HYDROPHORE STORAGE TANK

Capable of supplying 2+ extinguishing events, depending on application and pressure switch setup. Max pressure: 112 PSI. Proper pressure switch settings are critical. Tank size 26gal (air + water).



WATER RESERVOIR

40-gallon reservoir tank.

Includes a float valve, garden hose fitting, and bottom ball valve with cam & groove fitting for easy pump integration.





STANDARD FEATURES

- NEMA 4X, IP66, IP68 Control Panel. 120VAC, 16A.
- 1" NPT outlet and 1/2" drain valve with lockout tag out capable valve handles
- 3 1/2" Large print easily readable pressure (0-160 PSI) and vacuum (0-30in.Hg) gauges
- Adjustable Pressure switch, 60-112 PSI, and Flow Switch control systems
- Pre-wired and pre-assembled

TECHNICAL INFORMATION

Working Temperature	40-119 °F
Max Outlet Water Pressure	112 PSI
Water Inlet Size	Reservoir 3/4" GHT, Pump 1.5" Cam and Groove Coupler Type B
Air Inlet	Schrader Valve (8mm Tire Valve)
Water Outlet Size	1" NPT
Power	120 VAC, 16A
Maximum Distance	80ft
Height Restrictions	50ft
Water Consumption (3s w/ 2 nozzles)	3-6 L (0.79 - 1.58 gal)
Hydrophore Tank Size	26 gal tank (water + air)
System Weight (Empty)	242 lbs
System Weight (Full)	700lbs @ 40gal
Tank Dimensions	15" Ø x 33"H
Base Dimensions	55"L 25"W 44"H
Water Reservoir Dimensions	18" Ø x 42"H
Control Panel Outputs	Fault Output
Drain Port Supplied	1/2" NPT with Removable GHT Fitting
Maximum Number of Discharges Per Tank	Pressure Range (60-112 PSI): 6.5 cycles
Driving Force	Centrifugal Pump
Interfacing Panel	Boss Products BP Custom Control Panel
Reservoir Capacity	40 gal
Outlet Connections	Pipe or Hose